

(19) World Intellectual Property
Organization
International Bureau



25 MAR 2005

(43) International Publication Date
22 April 2004 (22.04.2004)

PCT

(10) International Publication Number
WO 2004/032626 A2

(51) International Patent Classification⁷: A01N

(21) International Application Number:
PCT/US2003/032267

(22) International Filing Date: 10 October 2003 (10.10.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/417,593 10 October 2002 (10.10.2002) US

(71) Applicant (*for all designated States except US*): SE-
QUOIA PACIFIC RESEARCH COMPANY, L.L.C.
[US/US]; Suite 522, 1192 East Draper Parkway, Draper,
UT 84020 (US).

(71) Applicant and
(72) Inventor: ROGERS, Larry, D. [US/US]; 3404 Sunridge
Court, Carson City, NV 89702 (US).

(74) Agent: KULISH, Christopher, J.; Holland & Hart LLP,
P.O. Box 8749, Denver, CO 80201-8749 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,
MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,
RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:
— of inventorship (Rule 4.17(iv)) for US only

Published:
— without international search report and to be republished
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: METHOD FOR TREATING AN ENVIRONMENT THAT MAY BE OR IS CONTAMINATED WITH AN UNDESIR-
ABLE BACTERIA, VIRUS AND/OR SPORE

(57) **Abstract:** The invention is directed to a method of decontaminating environments that are suspected of or known to be con-
taminated with undesirable biological agents, i.e., bacteria, viruses and/or spores, using nano-crystals that penetrate the cell wall of
the undesirable agent to neutralize the agent. In one embodiment, the method comprises providing a dry compound that, after being
mixed with water to form a slurry and a reduction in the temperature of the water in the slurry, forms nano-crystals. The method fur-
ther comprises mixing the dry compound with water to produce the slurry and applying the slurry to an environment that is suspected
of or known to be contaminated with an undesirable biological agent.



WO 2004/032626 A2